WHAT IS CLAIMED IS:

- 1. A phase-shifting mask for a photolithographic process,
 2 comprising a transparent material having first and second trenches, the
 3 first trench having a first depth and the second trench having a second
 4 depth deeper than the first depth.
 - 2. The phase-shifting mask of claim 1, wherein the first depth is suitable for phase-shifting light having a first wavelength and the second depth is suitable for phase-shifting light having a second wavelength longer than the first wavelength.
 - 3. The phase-shifting mask of claim 2, wherein the first depth is suitable for phase-shifting the first light by 180 degrees and the second depth is suitable for phase-shifting the second light by 180 degrees.
 - 4. The phase-shifting mask of claim 2, wherein the first depth is suitable for phase-shifting light having a wavelength of 248 nm by 180 degrees.
 - 5. The phase-shifting mask of claim 1, wherein the transparent material includes a first region of trenches including the first trench, the first region of trenches including a plurality of trenches having the first depth, wherein the transparent material includes a second region of trenches including the second trench, the second region of trenches including a plurality of trenches having the second depth.
 - 6. The phase-shifting mask of claim 5, wherein the first region comprises at least one-fourth of the surface area of one side of the transparent material and the second region comprises at least one-fourth of the surface area of the one side of the transparent material.

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- 7. The phase-shifting mask of claim 5, wherein the first region comprises approximately one-half of the surface area of one side of the transparent material and the second region comprises approximately one-half of the surface area of the one side of the transparent material.
- 8. The phase-shifting mask of claim 1, further comprising an opaque layer fabricated on the transparent material, the opaque layer representing a printed circuit pattern.

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1	9.	A phase-shifting mask for a photolithographic process
2	manufactured by the steps of:	

providing a transparent material;

patterning a plurality of first trenches in the transparent material, the first plurality of trenches having a first depth;

providing a resist layer over a portion of the transparent material; and

etching a plurality of second trenches in the transparent material until the second trenches has a second depth deeper than the first depth.

- 10. The phase-shifting mask of claim 9, wherein the resist layer covers a first subset of the first trenches and leaves a second subset of the first trenches exposed, wherein the second subset of first trenches are etched to form the second plurality of trenches.
- 11. The phase-shifting mask of claim 9, wherein the resist layer covers at least one-fourth of one side of the transparent material.
- 12. The phase-shifting mask of claim 9, wherein the resist layer covers approximately one-half of one side of the transparent material.
- 13. The phase-shifting mask of claim 9, further comprising patterning an opaque layer over the transparent material.
 - 14. The phase-shifting mask of claim 9, wherein the first depth is suitable to phase-shift a first wavelength of light passing through the first plurality of trenches by 180 degrees and the second depth is suitable to phase-shift a second wavelength of light passing through the second plurality of trenches by 180 degrees.

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1	A method of testing the effect of lights having different
2	wavelengths on a layer of photoresist, comprising:
3	providing a phase-shifting mask having a transparent m

providing a phase-shifting mask having a transparent material having first and second trenches, the first trench having a first depth and the second trench having a second depth deeper than the first depth;

transmitting light having a first wavelength through the first trench to the photoresist layer;

transmitting light having a second wavelength longer than the first wavelength through the second trench to the photoresist layer; and

comparing an effect on the photoresist layer of the light having the first wavelength to an effect on the photoresist layer of the light having the second wavelength.

- 16. The method of claim 15, wherein the first depth is suitable for phase-shifting the light having the first wavelength and the second depth is suitable for phase-shifting the light having the second wavelength longer than the first wavelength.
- 17. The method of claim 16, wherein the first depth is suitable for phase-shifting the first light by 180 degrees and the second depth is suitable for phase-shifting the second light by 180 degrees.
- 18. The method of claim 16, wherein the first depth is suitable for phase-shifting light having a wavelength of 193 nm.
- 19. The method of claim 15, wherein the transparent material includes a first region of trenches including the first trench, the first region of trenches including a plurality of trenches having the first depth, wherein the transparent material includes a second region of trenches

- including the second trench, the second region of trenches including a plurality of trenches having the second depth.
- 20. The method of claim 19, wherein the first region comprises at least one-fourth of the transparent material and the second region comprises at least one-fourth of the transparent material.
- 21. The method of claim 19, wherein the first region comprises approximately one-half of the transparent material and the second region comprises approximately one-half of the transparent material.
- 1 22. The method of claim 15, wherein the phase-shifting mask 2 includes an opaque layer coupled to the transparent material, the opaque 3 layer representing a printed circuit pattern.